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*State of New Mexico*  
**ENVIRONMENT DEPARTMENT**

***Hazardous Waste Bureau***

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**FACT SHEET**

**June 25, 2018**

**INTENT TO CERTIFY COMPLETION OF CORRECTIVE ACTION AND  
POST-CLOSURE CARE**

**UNDER THE NEW MEXICO HAZARDOUS WASTE ACT**

**PUBLIC SERVICE COMPANY OF NEW MEXICO PERSON GENERATING  
STATION**

**BERNALILLO COUNTY, NEW MEXICO**

**Facility Name:** Person Generating Station

**EPA Identification Number:** NMT 360010342

**Type of Facility:** Electricity Generating Station

**Location:** 725 Electric Ave. SE, Albuquerque, NM. The Person Generating Station is located northeast of the intersection of Broadway Boulevard and Rio Bravo Boulevard in the south valley of Albuquerque, New Mexico in Bernalillo County.

**Owner/Operator:** Public Service Company of New Mexico

**INTRODUCTION**

The New Mexico Environment Department (NMED) intends to grant corrective action complete status for the remediation of soil and groundwater related to historic releases of contaminants discharges to a sump at the Public Service Company of New Mexico (PNM) Person Generating Station and acknowledge completion of Post-Closure Care activities under the New Mexico Hazardous Waste Act (HWA). Public Service Company of New Mexico (PNM) as the owner and operator of the Person Generating Station implemented corrective action and post closure care under a Hazardous Waste

Facility Permit for Post-Closure Care (PCCP) reissued by the Department on October 6, 2012. The Facility is closed. Currently, the Facility does not treat, store, dispose or otherwise manage hazardous materials or waste.

PNM held a public meeting on the request for corrective action complete status on May 2, 2018 at the Mountain View Community Center. Five people (including representatives from PNM and the NMED) attended the public meeting. No written comments were received from the public by PNM or the NMED during PNM's 60-day public comment period.

The Post Closure Care Permit (PCCP) implemented post-closure care for the remediation of soil and groundwater contamination. The Facility had a maintenance area used to support, among other activities, equipment cleaning activities. The area included a 3.5-ft by 10-ft cylindrical open-bottomed metal pipe (referred to as the "Unlined Well") that was installed below-grade in a vertical orientation. The Unlined Well was used as a repository for wastes generated from 1976 to 1983 when it was closed. The Unlined Well was the source of the soil and groundwater contamination at the Facility.

Waste oils and greases, kerosene, a water-trisodium phosphate mixture, Stoddard® solvent, Dowclene EC® (active ingredients 1,1,1-TCA and PCE) and other solvent mixtures generated during maintenance activities were discharged to the Unlined Well. Equipment repainting activities generated waste paint, thinners and turpentine which also were disposed of in the Unlined Well.

Preliminary investigations of the nature and extent of soil and groundwater contamination at the Facility began in 1984. The results were used to develop a Closure Plan and the initial Post-Closure Care Permit. The Unlined Well was capped in 1987. In September 1998, the Unlined Well was removed and 52,000 cubic yards of contaminated soil also was removed and replaced with clean soil.

Four solid waste management units (SWMUs) that were closed that were associated with the Facility. These SWMUs consist of four Leach Fields, the Bone Yard Area, the Spin-off Filter Area, and the Natural Pit Area. Corrective Action Complete Without Controls determinations were approved by the NMED in July 2005.

## **SURROUNDING LAND USE**

Current land types and allowable land uses in proximity of the Facility include agricultural, vacant/abandoned, commercial, transportation/utility, and recreation/open space. A BNSF Railroad right-of-way is located on the Facility's western boundary. Interstate 25 and its associated right-of-way are located approximately 1,200 ft (0.2 mi) east of the site. The University of New Mexico Championship Golf Course is located east of Interstate 25 approximately 2,100 ft (0.4 mi) to the northeast of, and generally downgradient from, the site. The closest residential development to the site is approximately 1,500 ft (0.3 mi) to the southwest and upgradient from the Facility.

## **SOIL CONTAMINATION AND REMEDIATION**

A soil vapor extraction system (SVE) was operated from 1995-2003 to remove volatile soil contaminants. The NMED required remediation of the entire soil column (ground surface to the water table) to soil screening levels (SSLs) protective of groundwater; and,

remediation of surface soils (ground surface to 12 feet below ground surface [bgs]) to concentrations protective of human health based on a residential land use scenario.

### **SOIL AND PORE GAS CONFIRMATION SAMPLING AND RESULTS**

A soil sampling and analysis program was implemented in 2003 to confirm that soil cleanup levels have been met for the contaminants released from the Unlined Well. Three soil borings within 10 ft of the SVE well were completed to approximately 120 ft bgs. Soil samples were collected at nine depths at each location (3, 6, 9, 12, 33, 57, 77, 97 and 117 ft bgs) and analyzed for volatile organic compounds (VOCs) using EPA Method 8260. Five soil vapor probes (SVP) were installed in each boring at 38, 58, 78, 98 and 118 ft bgs and soil vapor samples were collected for analysis for 1,1-DCE, 1,1,1-TCA, PCE, 1,2,4-trimethylbenzene, and 1,3,5-trimethylbenzene.

PNM obtained 27 surface and near-surface (0-12 ft bgs) and subsurface (33-117 ft bgs) soil samples to evaluate for the presence of VOCs in soil. PCE was detected in one sample (11 micrograms per kilogram [ $\mu\text{g}/\text{kg}$ ]) below the action level in the sample collected from boring SVP-1 at a depth of 33 ft bgs. No other analytes were detected in the samples.

### **GROUNDWATER**

The depth to groundwater in the vicinity of the Facility ranges from 120 to 200 feet below ground surface (bgs). Groundwater has been grouped into shallow and deep zones. The shallow portion of the aquifer refers to water above 200 feet bgs and the deep portion is 200 to 900 feet bgs.

Contamination was detected in both the shallow and deep portions of the aquifer. Contaminants migrated to shallow groundwater as both a liquid and a vapor.

### **CLEANUP LEVELS**

The NMED and the New Mexico Water Quality Control Commission (WQCC) have separately specified certain cleanup goals and methods of calculating cleanup levels. The NMED has selected a human health target risk level of  $10^{-5}$  for carcinogenic substances and a Hazard Index (HI) of 1.0 for non-carcinogenic substances as cleanup goals for establishing specific cleanup levels for one or more contaminants for which toxicological data are published.

### **GROUNDWATER CLEANUP LEVELS**

The Facility RCRA Permit established groundwater cleanup standards at the lower of the WQCC Standard or Safe Drinking Water Act Maximum Contaminant Level for each contaminant. The corresponding concentrations used as the groundwater cleanup levels for the primary contaminants of concern are 5  $\mu\text{g}/\text{L}$  for 1,1-DCE, 60  $\mu\text{g}/\text{L}$  for 1,1,1-TCA and 5  $\mu\text{g}/\text{L}$  for PCE.

### **SHALLOW GROUNDWATER REMEDIATION**

A Groundwater Treatment System (GWTS) was installed in 1995. The GWTS used activated carbon to treat approximately 61 gallons per minute (gpm) of groundwater from five groundwater recovery wells. Treated water was discharged to the UNM Championship Golf Course.

In 1993, the total estimated areal extent of the VOC plume in the shallow aquifer was 36 acres with dissolved TCA, PCE and 1,1-DCE plumes extending to the east approximately 2,400 ft from the Unlined Well. The maximum detected concentrations of contaminants were 10,700 µg/L of 1,1,1-TCA, 1,600 µg/L of 1,1-DCE, and 2,700 µg/L of PCE.

### **DEEP GROUNDWATER REMEDIATION**

PNM monitored natural attenuation in the deep groundwater because the detected concentrations were low. Data collected from deep well clusters indicate that site-related contaminants were present at depths as deep as 800 feet bgs. All the deep groundwater monitoring wells have shown concentrations below detection limits for at least the last ten years.

### **POST-CLOSURE CARE PLAN FOR GROUNDWATER REMEDIATION**

Achieving soil cleanup levels at the Unlined Well by removing contaminated soils and treatment by soil vapor extraction removed the source of groundwater contamination. To attain the groundwater cleanup objectives, the groundwater post-closure care plan included:

1. Operation of the GWTS for shallow groundwater until concentrations of the hazardous contaminants of concern that exceeded the applicable cleanup standards were attained for all monitoring wells for a period of three consecutive years;
2. Semiannual sampling of wells to fully characterize site groundwater; and,
3. Once all wells attained three years of compliance, a phased shutdown of the GWTS was initiated, which included sampling of key wells.

If during the shutdown period, any of the hazardous constituents exceeded the concentration limit, then the GWTS was to be restarted and operated for a minimum of three years, alternating between six months of operation and shutdown. The first half 2013 monitoring results indicated that a monitoring well exceeded the relevant standard for tetrachloroethene. Consequently, the GWTS was restarted for continuous operation in 2013.

Monitoring results for 2015, 2016 and 2017 did not detect any exceedances of the concentration limits for any of the hazardous constituents. A second three-year phased shutdown period commenced in January 2015 and ended in December 2017 and the site met all the conditions set forth in the PCCP to achieve closure. Groundwater sampling results to support the end of post-closure care are in PNM Groundwater Sampling Reports listed in the Administrative Record.

### **PUBLIC PARTICIPATION**

Documents pertinent to permitting and corrective action activities submitted to or issued by the Department are available for public review in the Hazardous Waste Bureau Administrative Record at 2905 Rodeo Park Drive East, Building 1, Santa Fe, New Mexico.

The regulations require public involvement any time there is a significant modification to a Permit. Public notices are provided in local newspapers and letters to individuals on the

Facility mailing list which is maintained by the NMED. Any interested person may request to be placed on the list to be informed of such actions.

## **PUBLIC REVIEW OF THE CLOSURE**

The Administrative Record for this proposed action consists of the Closure Certification, this Public Notice, the Fact Sheet and other supporting documentation the NMED relied on to approve the closure. The Administrative Record may be reviewed, with prior appointment, at the following location during the public comment period.

NMED - Hazardous Waste Bureau  
2905 Rodeo Park Drive East, Building 1  
Santa Fe, New Mexico 87505-6313  
Phone: (505) 476-6000  
*Monday – Friday: 8:00 a.m. to 5:00 p.m.*  
Contact: *Pam Allen*

A copy of the Public Notice and the Fact Sheet are available on the Department's website at: <http://www.nmenv.state.nm.us/hwb/pnmperm.html>. To obtain a copy of the Administrative Record or a portion thereof, contact Ms. Pam Allen. The NMED will provide copies, or portions thereof, of the Administrative Record at a cost to the requestor.

The Department issues this public notice on **June 25, 2018**, to start a 60-day comment period that will end at **5:00 p.m. MDT, August 24, 2018**. Any person who wishes to comment on the Closure or request a public hearing should submit written or electronic mail comment(s) with the commenter's name and physical address to the respective address below. Only comments and/or requests received before **5:00 p.m. MDT on August 24, 2018** will be considered.

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Ref: PNM Post-Closure

Written comments must be based on reasonably available information and include, to the extent practicable, all referenced factual materials. Documents in the Administrative Record need not be re-submitted if expressly referenced by the commenter. Requests for a public hearing must provide: (1) a clear and concise factual statement of the nature and scope of the interest of the person requesting the hearing; (2) the name and physical address of all persons whom the requestor represents; (3) a statement of any objections to the Closure; and, (4) a statement of the issues which the commenter proposes to raise for consideration at the hearing. The NMED will provide a thirty-day notice of a public hearing, if one is scheduled.

The Department must ensure that the determination of corrective action complete is consistent with the New Mexico Hazardous Waste Management Regulations. All written comments will be considered in formulating a decision on Closure, or that may cause the

Closure to be modified. The NMED will respond in writing to all public comments. This response will specify what if anything has been changed in the Closure and the reasons for the changes. All persons presenting written comments or who requested notification in writing will be notified of the decision by mail. These responses will also be posted on the NMED website.

After consideration of all the written public comments received, the Secretary of the NMED or his designee will make the final decision on the Closure. The decision will be publicly available and shall be included in a notification to PNM by certified mail. The Secretary's decision shall constitute a final agency decision and may be appealed as provided by the HWA.

### **ARRANGEMENTS FOR PERSONS WITH DISABILITIES**

Any person with a disability requiring assistance or auxiliary aid to participate in this process should contact Donna Wright no less than ten days prior to the end of the public comment period at the following address: New Mexico Environment Department, P.O. Box 5469, 1190 St. Francis Drive, Santa Fe, New Mexico, 87502-6110, (505) 827-9769. TDD or TDY users please access Ms. Wright's number via the New Mexico Relay Network at 1 (800) 659-8331.

### **NON-DISCRIMINATION STATEMENT**

The Department does not discriminate based on race, color, national origin, disability, age or sex in the administration of its programs or activities, as required by applicable laws and regulations. The Department is responsible for coordination of compliance efforts and receipt of inquiries concerning non-discrimination requirements implemented by 40 C.F.R. Part 7, including Title VI of the Civil Rights Act of 1964, as amended; Section 504 of the Rehabilitation Act of 1973; the Age Discrimination Act of 1975, Title IX of the Education Amendments of 1972, and Section 13 of the Federal Water Pollution Control Act Amendments of 1972. If you have any questions about this notice or any of the Department's non-discrimination programs, policies or procedures, you may contact:

Kristine Pintado, Non-Discrimination Coordinator  
New Mexico Environment Department  
1190 St. Francis Dr., Suite N4050  
P.O. Box 5469  
Santa Fe, NM 87502  
(505) 827-2855  
[NMED.NDC@state.nm.us](mailto:NMED.NDC@state.nm.us)

If you believe that you have been discriminated against with respect to a Department program or activity, you may contact the Non-Discrimination Coordinator identified above or visit our website at <https://www.env.nm.gov/non-employee-discrimination-complaint-page/> to learn how and where to file a complaint of discrimination.